

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSENDER FOR PATENTS PO Box 1430 Alexandria, Virginia 22313-1450 www.wopto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/062,799	01/31/2002	Valene Skerpac	•	3395
Francis C. Hand, Esq. c/o Carella, Byme, Bain, Gilfillan, Cecchi,			EXAMINER	
			DAVIS, ZACHARY A	
Stewart & Olstein 6 Becker Farm Road		ART UNIT	PAPER NUMBER	
Roseland, NJ 07068			2137	
			MAIL DATE	DELIVERY MODE
			06/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/062,799 SKERPAC, VALENE Office Action Summary Examiner Art Unit Zachary A. Davis 2137 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 11 March 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4-16 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.2 and 4-16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/G5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/062,799 Page 2

Art Unit: 2137

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11 March 2008 has been entered.

2. By the above submission, no claims have been amended. Claims 8-14, previously presented in the supplemental reply filed on 05 April 2007 (which was not entered as detailed in the final rejection mailed 15 October 2007), have been added. New claims 15 and 16 have also been added. No claims have been canceled. Claims 1, 2, and 4-16 are currently pending in the present application.

Response to Arguments

 Applicant's arguments filed 11 March 2008 have been fully considered but they are not persuasive.

Art Unit: 2137

Claims 1 and 4-6 were rejected under 35 U.S.C. 112, second paragraph, as indefinite. Claims 1, 2, and 4-7 were rejected under 35 U.S.C. 102(b) as anticipated by Kanevsky et al, US Patent 5897616.

Regarding the rejection of Claim 1 under 35 U.S.C. 112, second paragraph, as indefinite, Applicant argues that the limitation of "a first data base having a plurality of words and language rules for generating one-time challenge phrases" provides antecedent basis for "said first data base for randomly generating a one-time challenge phrase" (page 12 of the present response). Although the Examiner agrees that the former provides antecedent basis for a first data base in general, the Examiner does not agree that there is sufficient antecedent basis for the limitation as a whole, in particular the limitation that the first data base is "for randomly generating a one-time challenge phrase" (emphasis added).

Regarding the rejection of Claim 4 under 35 U.S.C. 112, second paragraph, as indefinite, Applicant submits that "the user" of line 11 refers to "the user" in line 1 and not the "multiplicity of users" in lines 6-7 (page 12 of the present response). However, the Examiner notes that this is not explicitly clear from the language of the claim. The limitation of "the user" in line 11 does not distinguish sufficiently between the user first recited in line 2 and the additional multiplicity of users in lines 6-7; it is also not clear whether the user recited in line 2 is one of the multiplicity of users or if the user is separate. These issues still render the claim indefinite. Further, Applicant has not addressed the other mentioned limitation of "said stored biometric model of said one user" as detailed in the previous Office action.

Art Unit: 2137

Regarding the rejection of Claim 5 under 35 U.S.C. 112, second paragraph, as indefinite. Applicant argues that "said challenge phrase" in line 11 clearly refers to the "one-time challenge phrase" of line 8 and not to the "one-time challenge phrases of lines 5-6 (page 12 of the present response); however, similar to "the user" in both Claims 4 and 5, this is not, in fact, explicitly clear from the language of the claim. The limitation "said challenge phrase" does not distinguish sufficiently between the plural challenge phrases that can be generated in lines 5-6 and the phrase generated at line 8. Regarding the limitation "the stored biometric models for validating said spoken response" in lines 14-15. Applicant argues that there is antecedent basis for "the stored biometric models" provided by the storing in line 7 of "a biometric model of each of a multiplicity of users". Although the Examiner agrees that the latter does provide antecedent basis for "stored biometric models" in general, the Examiner does not agree that there is sufficient antecedent basis for the limitation as a whole, in particular the limitation the models are "for validating said spoken response". Further, Applicant has not addressed the limitations of "said one of said users" or "said stored biometric model of said one of said users" as detailed in the previous Office action. Additionally, with particular reference to the statement in the previous Office action that "it is unclear how the spoken response can match both the challenge phrase and the validation" (see page 8 of the Office action mailed 15 October 2007). Applicant again attempts to clarify the interpretation of the claim (pages 12-13 of the present response). However, the Examiner notes that Applicant's remarks do not appear to address explicitly the language at issue in the rejection. In particular, the Examiner notes that, as written, the

Art Unit: 2137

claim requires that the spoken response be verified as both matching the challenge phrase and as matching a validation. However, this is generally unclear; while it makes sense for the spoken response to be verified as to whether it matches the challenge phrase, it is not clear how the spoken response is compared with the abstract concept of a "validation" to determine a matching between the two.

Regarding the rejection of Claims 1, 2, and 4-7 under 35 U.S.C. 102(b) as anticipated by Kanevsky et al. US Patent 5897616, and specifically in reference to Claim 1, Applicant argues that Kanevsky does not disclose generation of a one-time phrase but instead generates a random question, and asserts that in Applicant's system, "the speaker must speak those challenged phrases" (page 9 of the present response). First, as previously noted, the Examiner submits that a random question is, in fact, a subset of a one-time (i.e. random) phrase, and therefore the random question in Kanevsky reads on the claimed random phrase (column 6, lines 25-29). Further, the Examiner notes that Claim 1 never explicitly recites that the spoken response to the challenge phrase is the challenge phrase itself repeated back by the speaker. The claim more broadly recites "a spoken response from the user to said delivered one-time challenge phrase"; it does not require that the response be the phrase itself. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). It is noted that, in contrast, new Claims 15 and 16 recite receiving "a spoken response from the user of said delivered one-time challenge phrase" (emphasis added), which more clearly limits the response to the phrase itself.

Art Unit: 2137

Applicant further argues that Kanevsky does not teach the claimed first data base of Claim 1, and that the data base in Kanevsky only contains information specific to the user that is used to generate a random question (see pages 9-10 of the present response). However, the Examiner respectfully disagrees; since the database in Kanevsky is specifically used to generate questions, there must clearly be some sort of language rule used to generate these questions.

Further, Applicant argues that Kanevsky does not match the answer to the question and therefore cannot disclose the claimed matching of the second signal (representative of the spoken response) and the challenge phrase as recited in Claim 1 (page 10 of the present response). The Examiner respectfully disagrees, noting that Applicant appears to be relying on a more restrictive definition of "matching". Applicant appears to be suggesting that matching means comparing two items for equality. In contrast, the Examiner submits that a match between the challenge phrase and the response more broadly means that the two correspond to each other. That is, given that the challenge phrase is a random question, if the response is the correct answer to that question, then the response would match the challenge (i.e. the answer matches the question). Therefore, the Examiner submits that the cited portions of Kanevsky disclose the controller as claimed (see, as previously cited, column 6, line 25-column 7, line 25). The Examiner again notes that new Claims 15 and 16 appear to more clearly set forth this distinction that Applicant is attempting to draw in reference to Claim 1.

Additionally in reference to Claim 1, Applicant argues that "Kanevsky does not require the user to speak the question" (page 10 of the present response). In response,

Application/Control Number: 10/062,799
Art Unit: 2137

the Examiner notes that although the claim recites a "one-time challenge phrase... for the user to speak", the claim does not explicitly include a step in which the user actually speaks the phrase. Rather, the claim recites receiving a spoken response to the challenge phrase, and the Examiner believes that the answer to the question disclosed by Kanevsky (column 6, lines 34-37) does, in fact, constitute a spoken response to the challenge phrase as claimed. Again, the Examiner notes that new Claims 15 and 16, in contrast to Claim 1, recite receiving "a spoken response from the user of said delivered one-time challenge phrase", which more clearly limits the response to the phrase itself.

In reference to Claim 2, Applicant makes similar arguments as set forth with respect to Claim 1, although Applicant does not provide any clear evidence in relation to those arguments (see page 11 of the present response). These arguments were addressed above. Similarly, Applicant asserts that Claims 4-6 and 11-14 are allowable for similar reasons (page 11 of the present response).

The Examiner notes that Applicant has not addressed Claims 7-10 in the present response, and therefore this does not fully comply with the requirements of 37 CFR 1.111, because Applicant must reply to every ground of objection and rejection in the prior Office action. However, because this appears to be a *bona fide* attempt to advance the prosecution of the present application, it has been assumed that these claims were intended to be grouped with the other dependent claims as noted above, and the reply has been treated as though it were fully in compliance with the provisions of 37 CFR 1.111.

Art Unit: 2137

Regarding new Claims 15 and 16, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Specifically, Applicant merely states that Claim 15 includes "a controller... for randomly generating a one-time challenge phrase... and delivering said one-time challenge phrase... for the user to speak said one-time phrase exactly" and "to simultaneously process said spoken response for speech recognition and to issue a second validation signal... in response to a match between said spoken response and said one-time challenge phrase" and alleges that "Kanevsky is void of any such structure or teaching" (pages 11-12 of the present response). However, Applicant does not explicitly point or explain the differences between the claim and Kanevsky, nor does Applicant address any differences between new Claims 15 and 16 and the previously pending independent Claims. The new claims are rejected as set forth below.

Therefore, for the reasons detailed above, the Examiner maintains the rejections as set forth below.

Claim Rejections - 35 USC § 112

4. As detailed above in the response to arguments, Applicant's arguments in reference to the various rejections under 35 U.S.C. 112, second paragraph, are not persuasive. Additionally, not all of the issues set forth in the previous Office action have

Art Unit: 2137

been addressed, and further, the new claims raise additional issues of indefiniteness.

Therefore, Claims 1 and 4-6 remain rejected, and new Claims 8-16 are also rejected, as set forth below.

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1, 4-6, and 8-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "said first data base for randomly generating a onetime challenge phrase". There is insufficient antecedent basis for this limitation in the

Claim 4 recites the limitation "the user" in line 11 of the claim. Because there is a multiplicity of users in lines 6-7 and also a user in line 2, it is not clear to which user this is intended to refer. Further, the claim recites "said stored biometric model of said one user" in lines 15 and 17 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the user" in line 10 of the claim. Because there is a multiplicity of users recited in line 7, it is not clear to which user this is intended to refer. The claim also recites "said challenge phrase" in line 11; it is not clear whether this refers to one of the challenge phrases mentioned at lines 4-5, or to the challenge phrase of line 10. Additionally, the claim recites "the stored biometric models for validating said spoken response" in lines 14-15; the claim also recites the limitation

Art Unit: 2137

"said one of said users" in line 15, lines 16-17, and line 20. The claim further recites "said stored biometric model of said one of said users" in lines 16-17. There is insufficient antecedent basis for these limitations in the claim. Finally, in the limitation "said spoken response as matching said challenge phrase and a validation" in lines 18-19, it is unclear how the spoken response can match both the challenge phrase and the validation; in particular, it is unclear how the spoken response matches the validation itself, given that a validation is a relatively abstract concept and not a particular phrase that could be spoken.

Claim 8 recites the limitation "in response to validating of said first signal as representative of the user". First, there is insufficient antecedent basis for the limitation "said first signal" in the claims. Further, because there is no first signal in Claim 8 or Claim 2, from which it depends, it is not clear where the "validating of said first signal" that is referred to was previously recited.

Claim 9 recites that the "randomly generated one-time challenge phrase makes sense and is simple to say". First, it appears that placing such constraints on the challenge phrase may raise a contradiction with the requirement that the phrase be completely randomly generated. Further, the phrases "makes sense" and "simple to say" are relative terms. There is nothing in the claims or specification that provide a standard to determine whether a phrase would make sense or be simple to say. This renders the claim indefinite. See MPEP § 2173.05(b).

Claim 10 recites the limitation "said randomly generated one-time challenge phrase is a language subset specific to a subject area"; however, this is generally

Art Unit: 2137

unclear, as it is not clear from the way the terms "language subset" have been used in the specification how a phrase itself could be a language subset. It appears that there may be language missing from the limitation.

Claim 11 recites the limitation "in response to validating of said first signal as representative of the user". First, it is not clear to which user the phrase "the user" is intended to refer; for example, the user first mentioned in line 1 or line 3 of Claim 5, one of the multiplicity of users recited in Claim 5, line 7, or "said one of said users" first recited in Claim 5, line 15. Further, there does not appear to be sufficient antecedent basis for the phrase "validating of said first signal" as a whole.

Claim 12 also recites that the "randomly generated one-time challenge phrase makes sense and is simple to say". First, it appears that placing such constraints on the challenge phrase may raise a contradiction with the requirement that the phrase be completely randomly generated. Further, the phrases "makes sense" and "simple to say" are relative terms. There is nothing in the claims or specification that provide a standard to determine whether a phrase would make sense or be simple to say. This renders the claim indefinite. See MPEP § 2173.05(b).

Claim 13 recites the limitation "said randomly generated one-time challenge phrase is a language subset specific to a subject area"; however, this is generally unclear, as it is not clear from the way the terms "language subset" have been used in the specification how a phrase itself could be a language subset. It appears that there may be language missing from the limitation.

Art Unit: 2137

Claim 14 recites the limitation "said challenge phrase". It is not clear whether this refers to one of the challenge phrases mentioned in Claim 5 at lines 4-5, or to the challenge phrase of Claim 5, line 10. Further, it is not clear how it would be possible to compare the spoken response to the stored biometric models once the response has been encrypted.

Claim 15 recites the limitation "the user" in line 8. It is not clear whether this is intended to refer to the user recited in line 2, or to one of the plurality of authorized users recited in line 7. Further, the claim recites the limitation "said first data base for randomly generating a one-time challenge phrase" in lines 9-10. There is insufficient antecedent basis for this limitation in the claim. Further, Claim 15 recites "said stored biometric model for said authorized user" in lines 17-18; it is not clear to which of the stored biometric models or authorized users this is intended to refer. The claim also recites "to issue a second validation signal as representative of said one-time challenge phrase" in line 20; it is not clear how a validation signal would be representative of the challenge phrase, however. Additionally, the claim recites "said controller to issue a positive authentication signal as representative of an authorized user in response to said first validation signal and said second validation signal being simultaneously received" in lines 23-25. However, it is not clear where the first and second validation signals are received from, noting that the validation signals are each issued by the controller, and also that the above limitation appears to require that the validation signals are also received at the controller. This is generally unclear.

Art Unit: 2137

Claim 16 recites the limitation "said first signal" in line 9. There is insufficient antecedent basis for this limitation in the claim. Claim 16 further recites "to issue a second validation signal as representative of said one-time challenge phrase" in line 18; it is not clear how a validation signal would be representative of the challenge phrase, however. Further, the claim recites "said controller to issue a positive authentication signal as representative of an authorized user in response to said first validation signal and said second validation signal being simultaneously received" in lines 21-23. However, it is not clear where the first and second validation signals are received from, noting that the validation signals are each issued by the controller, and also that the above limitation appears to require that the validation signals are also received at the controller. This is generally unclear.

Claims not specifically referred to are rejected due to their dependence on a rejected base claim.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 2, 4-7, 9, 10, 12, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kanevsky et al, US Patent 5897616.

Art Unit: 2137

In reference to Claim 1, Kanevsky discloses a biometric security system including a station for receiving input information, which is representative of a user, from the user and generating a signal responsive thereto (column 6, lines 4-11, for example); a database having a plurality of words and language rules for generating one-time challenge phrases (column 6, lines 25-29); a database having biometric models of users (column 6, lines 16-24); and a controller that receives and validates the signal as representative of the user, where the controller communicates with the database that generates one-time challenge phrases for the user to speak (column 6, lines 25-29), and communicates with the station to receive a spoken response and generate a second signal that represents the response (column 6, lines 34-37), to validate voice information by speaker recognition (column 6, lines 35-65), and to validate the spoken response to the challenge as representative of the user if the validation by speaker recognition and verification by speech recognition succeed (column 7, lines 14-25).

Claims 2 and 7 are directed to methods corresponding substantially to the system of Claim 1, and are rejected by a similar rationale.

In reference to Claims 9 and 10, Kanevsky further discloses that the phrase makes sense and is from a language subset specific to subject area (column 6, lines 25-29; see also column 7, line 41-column 8, line 15).

In reference to Claim 4, Kanevsky discloses a biometric security system including a station for receiving input information, which is representative of a user, from the user

Art Unit: 2137

and generating a first signal responsive thereto (column 6, lines 4-11, for example); a database having a plurality of stored word phrases (column 6, lines 25-29); a database storing biometric models of users (column 6, lines 16-24); and a controller receiving and comparing the first signal to a stored biometric model and validating the first signal if the first signal matches a stored model (column 6, line 66-column 7, line 12), where the controller further randomly selects and forwards a word phrase as a challenge for a user to speak (column 6, lines 25-29), receives and compares with the challenge a spoken response to the challenge (column 6, lines 35-65), and verifies the response as matching the challenge (column 6, lines 35-65), and where the controller additionally validates the response if the response matches the stored model (column 6, line 66-column 7, line 12), and the controller issues an authentication signal if both the response matches the phrase and the response is representative of a user (column 7, lines 14-25).

Claims 5 and 6 are directed to methods corresponding substantially to the system of Claim 4, and are rejected by a similar rationale.

Claims 12 and 13 recite limitations also recited in Claims 9 and 10, and are rejected by a similar rationale.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2137

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be needlived by the manner in which the invention was made.

 Claims 8, 11, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanevsky.

In reference to Claims 8 and 11, Kanevsky discloses everything as described above in reference to Claims 2 and 5, respectively. Kanevsky does not explicitly disclose establishing a session time out limit; however, Official notice is taken that it is well known in the art to establish a session time out in order to require that authentications must take place within a specific time period, so that the probability of an imposter being able to take more sophisticated deceptive actions is decrease. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the methods of Kanevsky to include a time out, in order to increase security and to realize the above noted predictable result.

In reference to Claim 14, Kanevsky discloses everything as described above in reference to Claim 5. Kanevsky does not explicitly disclose encrypting or digitally signing the spoken response. However, Official notice is taken that it is well known in the art to encrypt data when privacy of that data is needed and/or if that data will be sent over an insecure channel. Further, Official notice is taken that it is well known in the art to use a digital signature when it is necessary to verify the integrity of data, i.e. to make sure that the data has not been altered. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Kanevsky to include encryption, in order to increase the privacy and security of the

Art Unit: 2137

data, and to include a digital signature, in order to allow the integrity of the data to be verified.

 Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanevsky in view of Kashani, US Patent Application Publication 2002/0165894.

In reference to Claims 15 and 16, Kanevsky discloses a speech biometric security system including a station for receiving input information, which is representative of a user, from the user and generating a signal responsive thereto (column 6, lines 4-11, for example); a database having a plurality of words and language rules for generating one-time challenge phrases (column 6, lines 25-29); a database having biometric models of users (column 6, lines 16-24); and a controller that receives and validates the signal as representative of the user, where the controller communicates with the database that generates one-time challenge phrases for the user to speak (column 6, lines 25-29), and communicates with the station to receive a spoken response and generate a second signal that represents the response (column 6, lines 34-37), to process the response by speaker recognition and issue a first validation signal (column 6, line 66-column 7, line 12) and simultaneously process the response by speech recognition and issue a second validation signal (column 6, lines 35-65), and issue a positive authentication signal in response to the first and second validation signals (column 7, lines 14-25). However, Kanevsky does not explicitly disclose that the spoken response is the challenge phrase spoken exactly.

Application/Control Number: 10/062,799 Page 18

Art Unit: 2137

Kashani discloses a voice recognition system (paragraph 0048) in which a sentence is constructed from random words taken from the recorded vocabulary of the user (paragraph 0118) and the user is required to speak the random sentence exactly in order to be authenticated (paragraphs 0118-0119). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the systems of Kanevsky by requiring that the spoken response be exactly the same as the challenge phrase, in order to prevent an attack in which a user's speech is previously recorded and played back to impersonate the user (see Kashani paragraphs 0044, 0048, 0119).

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Anderson, Jr., US Patent 5805674, discloses a voice recognition system in which users are given random phrases from a subset of phrases.
 - Vensko, US Patent 5806040, discloses a voice recognition system where users are given random phrases to speak.
 - Kennedy et al, US Patent 6084967, discloses a security token using voice authentication.
 - d. San Martin et al, US Patent 6681205, discloses a speaker independent voice recognition system where a user is given a random phrase to speak.

Art Unit: 2137

 Chainer, US Patent 6957337, discloses a system for biometric authentication, such as voice recognition, without privacy invasion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary A. Davis whose telephone number is (571)272-3870. The examiner can normally be reached on weekdays 8:30-6:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ZAD/ Examiner, Art Unit 2137 Application/Control Number: 10/062,799 Page 20

Art Unit: 2137

/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2137